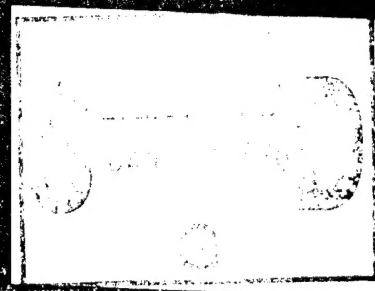


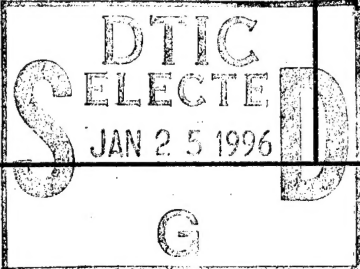
DRAFT FINAL  
CONTINGENCY PLAN  
ROCKY MOUNTAIN ARSENAL  
VOLUME I  
DECEMBER 1990



19960119 001

FOUO - UNCLASSIFIED

Approved for public release;  
Distribution Unlimited

REPORT DOCUMENTATION PAGE			Form Approved OMB No. 0704-0188	
Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.				
1. AGENCY USE ONLY (Leave blank)	2. REPORT DATE 12/00/90	3. REPORT TYPE AND DATES COVERED		
4. TITLE AND SUBTITLE CONTINGENCY PLAN, ROCKY MOUNTAIN ARSENAL, DRAFT FINAL		5. FUNDING NUMBERS		
6. AUTHOR(S)				
7. PERFORMING ORGANIZATION NAME(S) AND ADDRESS(ES)  ENGINEERING SCIENCES, INC. DENVER, CO		8. PERFORMING ORGANIZATION REPORT NUMBER  91079R01		
9. SPONSORING / MONITORING AGENCY NAME(S) AND ADDRESS(ES)  HAZARDOUS WASTE REMEDIAL ACTIONS PROGRAM (U.S.) OAK RIDGE, TN		10. SPONSORING / MONITORING AGENCY REPORT NUMBER		
11. SUPPLEMENTARY NOTES				
12a. DISTRIBUTION / AVAILABILITY STATEMENT  APPROVED FOR PUBLIC RELEASE; DISTRIBUTION IS UNLIMITED				
12b. DISTRIBUTION CODE		13. ABSTRACT (Maximum 200 words)  THE CONTINGENCY PLAN (CP) IS DESIGNED TO: 1. MINIMIZE HAZARDS TO HUMAN HEALTH AND THE ENVIRONMENT FROM FIRES, EXPLOSIONS, OR ANY UNPLANNED RELEASE OF HAZARDOUS SUBSTANCES 2. PROVIDE THE PROCEDURES FOR APPROPRIATE EMERGENCY RELEASE NOTIFICATION. VOLUME I: CONTAINS THE CONTINGENCY PLAN WHICH INCLUDES DISCUSSIONS OF: 1. INCIDENT DISCOVERY AND REPORTING 2. INSTALLATION RESPONSE TEAM ACTIVATION 3. RESPONSIBILITIES OF THE INSTALLATION RESPONSE TEAM 4. VERBAL NOTIFICATION OF OFF-POST GROUPS 5. REQUIRED WRITTEN REPORTS AND RECORDKEEPING 6. EMERGENCY EQUIPMENT 7. EVACUATIONS. VOLUME II: CONTAINS THE CHEMICAL ACCIDENT/INCIDENT RESPONSE PLAN AND THE INSTALLATION SPILL CONTINGENCY PLAN.		
14. SUBJECT TERMS  WASTE, EQUIPMENT, SPILLS, HUMAN EXPOSURE, REGULATIONS		15. NUMBER OF PAGES		
		16. PRICE CODE		
17. SECURITY CLASSIFICATION OF REPORT  UNCLASSIFIED	18. SECURITY CLASSIFICATION OF THIS PAGE	19. SECURITY CLASSIFICATION OF ABSTRACT	20. LIMITATION OF ABSTRACT	



**DRAFT FINAL**

**CONTINGENCY PLAN  
ROCKY MOUNTAIN ARSENAL**

**VOLUME I**

Accession For	
NTIS	CRA&I <input checked="" type="checkbox"/>
DTIC	TAB <input type="checkbox"/>
Unannounced <input type="checkbox"/>	
Justification _____	
By _____	
Distribution / _____	
Availability Codes	
Dist	Avail and/or Special
A-1	

December 1990

**Rocky Mountain Arsenal  
Information Center  
Commerce City, Colorado**

Prepared for  
**PROGRAM MANAGER  
ROCKY MOUNTAIN ARSENAL**

Submitted by  
**Hazardous Waste Remedial Actions Program  
Oak Ridge, Tennessee 37831  
Managed by MARTIN MARIETTA ENERGY SYSTEMS, INC.  
For the U.S. DEPARTMENT OF ENERGY under contract DE-AC05-84OR21400**

Compiled by  
**Engineering-Science, Inc.  
1100 Stout Street, Suite 1100  
Denver, Colorado 80204**

This Contingency Plan (CP) applies to all Army personnel, civilian employees, Army facilities, Army contractors, Army contractor facilities, tenants, and tenant facilities located at the Rocky Mountain Arsenal.

The CP is designed to minimize hazards to human health and the environment from fires, explosions, or any unplanned sudden or non-sudden release of hazardous substances or oil to air, soil, surface water, or ground water, and to provide the procedures for appropriate emergency release notification.

The CP is comprised of four volumes. Volume I contains the CP. In Volume I, the most important information has been summeried in a box at the beginning of each section. Subsequent volumes contain attachments to the CP. Volume II contains Attachment A - Chemical Accident/Incident Response Plan and Attachment B - Installation Spill Contingency Plan. Volume III contains maps (Appendix J of Attachment B) of the various potential spill sites. Volume IV (in preparation) will contain contractor site-specific contingency plans. The attachments are integral parts of the CP, and provide specific response information based upon the type of incident or the site/facility involved.

The CP is formatted with a page, figure, table, and plate numbering system that permits the reader to determine his location within any volume, attachment, or appendix of the CP. Pages are numbered sequentially by subdivision as follow: volume number (upper-case roman numeral) - attachment letter (upper case) - appendix letter (upper case) page number (arabic or lower-case roman numeral). Example: II-B-C1 = first page of Appendix C to Attachment B in Volume II. Volume and page number, separated by a dash, are always present; attachment and appendix letters are present as appropriate. Figures, tables, and plates are numbered sequentially by subdivision following the same scheme as paging, except the appropriate descriptor (Figure, Table, or Plate) precedes the number, and a period precedes the sequential arabic numeral. Examples: I.3 = the third figure/table/plate in Volume I; II-A.4 = the fourth figure/table/plate in Attachment A in Volume II.

#### DISCLAIMER

This document was originally prepared by IT Corporation in 1984 and was updated by the United States Army Environmental Hygiene Agency in January 1989. These reports, together with other information, were provided by Program Manager Rocky Mountain Arsenal (PMRMA) and compiled by Engineering-Science, Inc. However, information was not confirmed by onsite inspections of the facilities. In addition, key pieces of information to be supplied by PMRMA are under development.



## DOCUMENT ORGANIZATION

<b><u>VOLUME NUMBER</u></b>	<b><u>TAB COLOR</u></b>	<b><u>DOCUMENT</u></b>
I	Red	Contingency Plan
II	Blue	Attachment A: Chemical Accident/Incident Response Plan
	Yellow	Attachment B: Installation Spill Contingency Plan  Appendix A Site-Specific Action Plans Appendix B Spill Response Procedures Appendix C Emergency Response Equipment Appendix D Outside Assistance Appendix E Hazardous Substance Reportable Quantities Appendix F Training Appendix G Safety Precautions for Known Hazardous Substances Appendix H Public Affairs Guidelines Appendix I References
III	Yellow	Attachment B: Installation Spill Contingency Plan  Appendix J Maps
IV (In Preparation)	White	Attachment C: Contractor Site-Specific Contingency Plans

## TABLE OF CONTENTS

### Volume I

	<u>Page</u>
Document Organization .....	I-i
Table of Contents .....	I-ii
Acronyms/Abbreviations .....	I-iv
1 Incident Discovery and Immediate Reporting .....	I-1
2 Incident Response Procedures.....	I-4
3 Installation Response Team Activation .....	I-5
4 Responsibilities of the Installation Response Team.....	I-13
4.1 Installation On-Scene Coordinator .....	I-13
4.2 Fire Prevention and Protection Branch Representative .....	I-14
4.3 Compliance Office - Safety Representatives.....	I-15
4.4 Facilities Maintenance Branch Representative .....	I-15
4.5 Chemist.....	I-16
4.6 Law Enforcement and Security Branch Representative .....	I-16
4.7 Public Affairs Officer .....	I-17
4.8 Counsel.....	I-17
4.9 Compliance Officer .....	I-17
4.10 Chemical Accident/Incident Response Officer.....	I-18
4.11 Air Monitoring Team.....	I-18
4.12 Logistics Branch Representative .....	I-18
4.13 Plotter .....	I-18
4.14 Radio Operator - Charlie Network.....	I-18
4.15 Recorder.....	I-18
4.16 Hotline Team .....	I-18
4.17 Downwind Hazard Calculator .....	I-18
5 Verbal Notification of Offsite Entities.....	I-19
6 Required Written Reports and Recordkeeping.....	I-23
6.1 Installation Records .....	I-23
6.2 Incident Assessment Reports.....	I-23
6.3 Facility Restart Notification.....	I-29
7 Emergency Equipment.....	I-30
7.1 Communications Equipment .....	I-30
7.2 Emergency Vehicles .....	I-30
7.3 Spill Response and Cleanup Support Equipment .....	I-36
7.4 Fire Protection Systems .....	I-37

## TABLE OF CONTENTS (Continued)

### Volume I (Continued)

8	Coordination Agreements .....	I-43
9	Evacuation Plan .....	I-46
	9.1 Evacuation of Incident Area .....	I-46
	9.2 Installation-Wide Evacuation .....	I-46
10	Administration of the Contingency Plan .....	I-48
	10.1 Location of Contingency Plan .....	I-48
	10.2 Amending of Contingency Plan .....	I-48

### List of Tables

<u>No.</u>	<u>Title</u>	<u>Page</u>
I.1	Installation On-Scene Coordinators, Addresses, Telephone Numbers, and Radio Call Signs .....	I-7
I.2	Installation Response Team Personnel, Addresses, Telephone Numbers, and Radio Call Signs .....	I-8
I.3	Hazard Assessment and External Notification Plan .....	I-11
I.4	Security and Emergency Network Access .....	I-31
I.5	Site Emergency Warning Signals .....	I-33
I.6	Rocky Mountain Arsenal Apparatus Information .....	I-34
I.7	Rocky Mountain Arsenal Fire Protection Systems .....	I-38

### List of Figures

<u>No.</u>	<u>Title</u>	<u>Page</u>
I.1	Installation Response Team (IRT) Organization Chart .....	I-6
I.2	Decision, Activation, and Notification Process - Installation Response Team and Offsite Entities .....	I-10
I.3	Flow Chart For Reporting Releases to Offsite Entities .....	I-21
I.4	Fire Prevention and Protection Branch Incident Report Log .....	I-24
I.5	Law Enforcement and Security Branch Incident Record Log .....	I-25
I.6	Installation On-Scene Coordinator Incident Fact Sheet .....	I-26

## ACRONYMS/ABBREVIATIONS

AAF - communications network prefix  
ADCOM - Adams County Mutual Aid  
AFFF - aqueous film-forming foam  
AMC - U.S. Army Materiel Command  
AMC/DA - Army Materiel Command/Department of the Army  
AOC - Army Operations Center  
AR - Army Regulation  
ARCHIE - Automated Resource for Chemical Hazards  
AST - aboveground storage tank  
CAI - Chemical Accident/Incident  
CAIR - Chemical Accident/Incident Response  
CAIRO - Chemical Accident/Incident Response Officer  
CAMEO - Computer Aided Management of Emergency Operations  
CDH - Colorado Department of Health  
CERCLA - Comprehensive Environmental Response, Compensation,  
and Liability Act  
CFR - Code of Federal Regulations  
CHEMTREC - Chemical Transportation Emergency Center  
CHRIS - Chemical Hazard Response Information System  
CP - Contingency Plan  
CRS - Colorado Revised Statutes  
CWA - Clean Water Act  
CWAHA - Central Waste Handling Area  
DCPD - Dicyclopentadiene  
DDT - Dichlorodiphenyltrichloroethane  
DOD - Department of Defense  
DODES - Division of Disaster Emergency Services  
DOM - Daily Operations Manager  
DOT - U.S. Department of Transportation  
DRMO - Defense Reutilization and Marketing Office  
ECC - Emergency Control Center  
ECCT - Emergency Control Center Team  
EOD - Explosives Ordnance Detachment  
EPA - U.S. Environmental Protection Agency  
ERT - Emergency Response Team  
FAMC - Fitzsimons Army Medical Center  
FDOIC - Fire Department Officer in Charge  
FEMA - Federal Emergency Management Agency  
FIFRA - Federal Insecticide, Fungicide, and Rodenticide Act  
FPPB - Fire Prevention and Protection Branch  
FWPCA - Federal Water Pollution Control Act (a.k.a. Clean Water Act)  
GAC - granular activated carbon  
GB - Nerve Agent, Sarin  
gpm - gallons per minute

## ACRONYMS/ABBREVIATIONS (Continued)

H - Mustard blistering agent  
HASP - Health and Safety Plan  
HDPE - high-density polyethylene  
HMIS - Hazardous Materials Information System  
HSWA - Hazardous and Solid Waste Amendments  
IOSC - Installation On-Scene Coordinator  
IRA - Interim Response Action  
IRT - Installation Response Team  
ISCP - Installation Spill Contingency Plan  
JARDF - Joint Administrative Record and Document Facility  
LEPC - Local Emergency Planning Committee  
MEK - methyl ethyl ketone  
MSDS - Material Safety Data Sheet  
NCP - National Oil and Hazardous Substances Pollution Contingency Plan (a.k.a. National Contingency Plan)  
NE - Northeast  
NEPA - National Environmental Policy Act  
NFPA - National Fire Protection Association  
NIOSH - National Institute for Occupational Safety and Health  
NOAA - National Oceanic and Atmospheric Administration  
NOK - next-of-kin  
NPDES - National Pollutant Discharge Elimination System  
NRC - National Response Center  
NSN - national stock number  
OSHA - U.S. Occupational Safety and Health Administration  
PAO - Public Affairs Officer  
PCB - polychlorinated biphenyl  
PL - Public Law  
PMRMA - Program Manager Rocky Mountain Arsenal  
POL - petroleum, oils, and lubricants  
PPE - personal protective equipment  
ppm - parts per million  
psi - pounds per square inch  
QA - quality assurance  
QC - quality control  
RCRA - Resource Conservation and Recovery Act  
RI/FS - Remedial Investigation/Feasibility Study  
RMA - Rocky Mountain Arsenal  
RQ - reportable quantity  
SARA - Superfund Amendments and Reauthorization Act  
SOP - standing operating procedure  
SPCC Plan - Spill Prevention, Control, and Countermeasure Plan  
SPDA - South Plants Decontamination Area  
STB - super tropical bleach  
TCFA - Tri-County Fireman's Association  
TIM - Technical Information Memorandum  
TOD - Technical Operations Division  
TSCA - Toxic Substances Control Act



## ACRONYMS/ABBREVIATIONS (Continued)

U.S. - United States  
USAEHA - United States Army Environmental Hygiene Agency  
USATEU - United States Army Technical Escort Unit  
USATHAMA - U.S. Army Toxic and Hazardous Materials Agency  
USC - United States Code  
USFWS - United States Fish and Wildlife Service  
UST - underground storage tank

## SECTION 1

### INCIDENT DISCOVERY AND IMMEDIATE REPORTING

The following incidents must immediately be reported to the Fire Prevention and Protection Branch (289-0223 or 289-0224):

- Chemical spill or accident;
- Petroleum spill or accident;
- Discovery of ordnance or chemical agent (surety materiel);
- Fire or explosion;
- Tornado sighting or lightning strike;
- Airplane crash; or
- Other event which could present a hazard to human health or the environment.

The Fire Prevention and Protection Branch (FPPB) will record the incoming call and notify the following as appropriate:

- the Law Enforcement and Security Branch,
- the Installation On-Scene Coordinator (IOSC) or alternate, and
- the Chemical Accident/Incident Response Officer (CAIRO).

Persons discovering an incident are responsible for providing initial defensive actions, provided the actions do not pose undue risk of personal injury. The following actions will be implemented as necessary upon discovery of an incident. The order of the actions will depend on existing conditions.

- Initiate evacuation, if necessary.
- Notify the Fire Prevention and Protection Branch (FPPB): Onsite at Extension 223 or 224, Offsite at Telephone No. 289-0223 or 289-0224.
- Restrict incident scene to authorized personnel.
- Restrict all sources of ignition when flammable substances are involved.
- Report to the FPPB representative and/or the Chemical Accident/Incident Response Officer (CAIRO) when they arrive at the scene.

When notifying the FPPB of an incident, the following information should be provided if it is known or can reasonably be determined:

- . Name and phone number of individual reporting incident.
- . Location and type of incident (fire, explosion, spill, etc.).
- . Number of injured personnel and nature of injuries (if applicable).
- . Substances involved, if applicable.
  - Identity, if known
  - Amount spilled (estimated)
  - Rate material currently spilling (estimated)
  - Areal extent of spill
- . Movement direction of spill/vapor/smoke.
- . Medium or media into which the released occurred.
- . Precautions or actions immediately taken.
- . Time incident occurred (estimated).
- . Any additional pertinent information (i.e., other potential hazards).

Personnel other than the FPPB receiving reports of incidents shall aid in channeling the report to the FPPB, which will respond as outlined below.

The FPPB under the direction of the chief or Fire Department Officer in Charge (FDOIC) will:

- . Record incident reports on an Incident Report Log (Section 6) designed to record the information listed in the above paragraph along with the time of the report.
- . Immediately respond as necessary to protect life and property with due regard for the environment. Immediate responses may include the following:
  - First Aid,
  - Rescue,
  - Fire fighting, and/or
  - Evacuation of incident area.
- . Notify as appropriate the Law Enforcement and Security Branch, the Installation On-Scene Coordinator (IOSC), and the CAIRO.
- . Report to the incident scene to assess the situation, and report the assessment of the situation to the IOSC.
- . Establish a mobile command post at the FPPB's vehicle if deemed necessary.
- . Evacuate the incident area and any affected downwind areas as necessary (Section 9).

The IOSC or alternate is always notified in the event of a surety or hazardous waste/substance incident, and may be notified for other incidents. In addition, the IOSC or Alternate will:

- . Record incident report and incident developments on an Incident Fact Sheet (Section 6).
- . Act as the emergency coordinator.
- . Advise the Law Enforcement and Security Branch as to the necessity for activation of the Installation Response Team (IRT).

The Law Enforcement and Security Branch will:

- . Record the incident report as relayed by the FPPB on an Incident Record Log (Section 6).
- . Maintain a current list of all members of the IRT along with their work and home telephone numbers. A backup copy of this list will be posted at the FPPB dispatch desk.
- . Contact the IRT members designated by the IOSC and inform them of the incident.

The CAIRO is always notified in the event of a surety or hazardous waste/substance incident, and may be notified for other incidents. In addition, the CAIRO will:

- . If appropriate, report to the incident scene and assist the FPPB representative in assessing and reporting the situation to the IOSC.
- . Request assistance from the United States Army Technical Escort Unit (USATEU) headquartered at Aberdeen Proving Ground, Edgewood, Maryland if a chemical agent incident is beyond the capabilities of available onsite Rocky Mountain Arsenal (RMA) equipment and personnel.
- . Request assistance from the 94th Explosives Ordnance Detachment (EOD) headquarters at Fort Carson, Colorado for any ordnance emergency.

The contractor operators will:

- . Notify the FPPB.
- . Initiate emergency response procedures as appropriate.

## SECTION 2

### INCIDENT RESPONSE PROCEDURES

For an incident involving surety materiel or ordnance refer to Volume II, Attachment A: Chemical Accident/Incident Response (CAIR) Plan.

For an incident involving a release of oil, hazardous substance, or extremely hazardous substance refer to Volume II, Attachment B: Installation Spill Contingency Plan (ISCP).

For an incident involving a specific contractor site refer to: Volume IV, Attachment C: Contractor Site-Specific Contingency Plans (in preparation).

The Chemical Accident/Incident Response (CAIR) Plan is located at the blue tabbed divider in Volume II, Attachment A. The CAIR Plan provides information on safety requirements for responding to an incident involving chemical agents or ordnances. The plan also provides information on emergency equipment and emergency response personnel. Only persons trained in the response to surety material incidents should attempt action. Any incident involving chemical agents or ordnances must be reported to the Fire Prevention and Protection Branch (FPPB) (289-0223 or 289-0224). The FPPB will notify the Chemical Accident/Incident Response Officer (CAIRO), and activate the Installation Response Team (IRT) if needed. Reporting requirements given in the ISCP (Volume II, Attachment B), apply to chemical agents that are listed as hazardous or extremely hazardous substances.

The Installation Spill Contingency Plan (ISCP) is located at the yellow tabbed dividers in Volume II, Attachment B. The ISCP specifies procedures to be followed when responding to releases, accidents, and spills involving oil or hazardous substances. The ISCP is supported by several vital appendices which provide information on potential spill sites within the facilities. Maps of facility locations are contained in Volume III. Only properly trained individuals should attempt to mitigate spills. All spills of oil or hazardous substances which have or could be released to the environment or which exceed a reportable quantity (RQ) or which may cause harm to any person or persons must be reported to the FPPB.

Contractor Site-Specific Contingency Plans contained within Volume IV, Attachment C contain information for responding to specific incidents occurring at contractor-operated facilities. However, all incidents involving a release of oil, hazardous substance, or extremely hazardous substance at contractor facilities must be reported to the FPPB. The FPPB will make additional notifications as necessary.



### SECTION 3

## INSTALLATION RESPONSE TEAM ACTIVATION

The Installation On-Scene Coordinator (IOSC) may activate members of the Installation Response Team (IRT) and notify the Installation Commander, Program Manager Rocky Mountain Arsenal (PMRMA) based upon his assessment of the situation.

If an incident is determined to be either a site emergency or general emergency (Table I.3) the IOSC will activate the Emergency Control Center (ECC) and notify all IRT members.

Members of the IRT are notified by the Law Enforcement and Security Branch (Security) under the direction of the IOSC.

The Rocky Mountain Arsenal (RMA) site emergency warning signals are listed in Table I.5 (Section 7) of this Contingency Plan.

The Installation Response Team (IRT) is a group of individuals at the installation who are able to effect a timely and efficient response to incidents at Rocky Mountain Arsenal (RMA). The IRT is comprised of the Emergency Control Center Team (ECCT) and the Emergency Response Team (ERT), and is headed by the Installation On-Scene Coordinator (IOSC) (Figure I.1). The responsibilities of the IRT are outlined in Section 4.

Table I.1 is a list of the primary and alternate IOSCs. When the primary IOSC is not onsite, one of the alternate IOSCs will be on call. Table I.2 is a list of the IRT members and designated alternates, excluding the IOSC.

Figure I.2 is a flow chart depicting immediate reporting, decision making, and the IRT activation process in an incident. The IOSC must be notified if an incident could cause off-post concern or involves any of the following:

- Hazardous waste,
- Hazardous substance,
- Surety materials, or
- Petroleum products.

The IOSC then acts as the emergency coordinator for the incident.

The IOSC may activate members of the ECCT and/or the ERT depending upon the situation reported by the Fire Chief or Fire Department Officer in Charge (FDOIC), the IOSC's assessment of the situation, and based on incident categories found in Table I.3. Table I.3 outlines the hazard assessment determinations along

FIGURE I.1

INSTALLATION RESPONSE TEAM  
(IRT) ORGANIZATION CHART

INSTALLATION ON-SCENE COORDINATOR (IOSC)

EMERGENCY CONTROL CENTER TEAM  
(ECCT)

- . PUBLIC AFFAIRS OFFICER
- . SAFETY OFFICER
- . CHIEF, SECURITY OFFICE
- . COMPLIANCE OFFICER
- . CHIEF, FACILITIES  
MAINTENANCE BRANCH
- . DOWNWIND HAZARD  
CALCULATOR
- . PLOTTER
- . RADIO OPERATOR, CHARLIE  
NETWORK
- . COUNSEL
- . RECORDER

EMERGENCY RESPONSE TEAM (ERT)

- . SAFETY ENGINEER
- . INDUSTRIAL HYGIENIST
- . CHEMICAL ACCIDENT/  
INCIDENT RESPONSE OFFICER  
(CAIRO) OR U.S. ARMY  
TECHNICAL ESCORT UNIT(USATEU)  
REPRESENTATIVE(S)  
OR EXPLOSIVES ORDNANCE  
DETACHMENT (EOD)  
REPRESENTATIVE(S)
- . CHIEF OR FIRE DEPARTMENT  
OFFICER IN CHARGE, FIRE  
PREVENTION AND  
PROTECTION BRANCH (FPPB)
- . FACILITIES MAINTENANCE  
BRANCH REPRESENTATIVE(S)
- . AIR MONITORING TEAM
  - DOWNWIND MONITORING  
TEAM AT THE HOTLINE
  - DOWNWIND MONITORING  
TEAM BETWEEN HOTLINE  
AND SITE BOUNDARY
- . HOTLINE TEAM
  - DECONTAMINATION TEAM
- . LOGISTICS BRANCH  
REPRESENTATIVE(S)
- . CONTRACTING OFFICE  
REPRESENTATIVE
- . CHEMIST

# IMMEDIATE INCIDENT

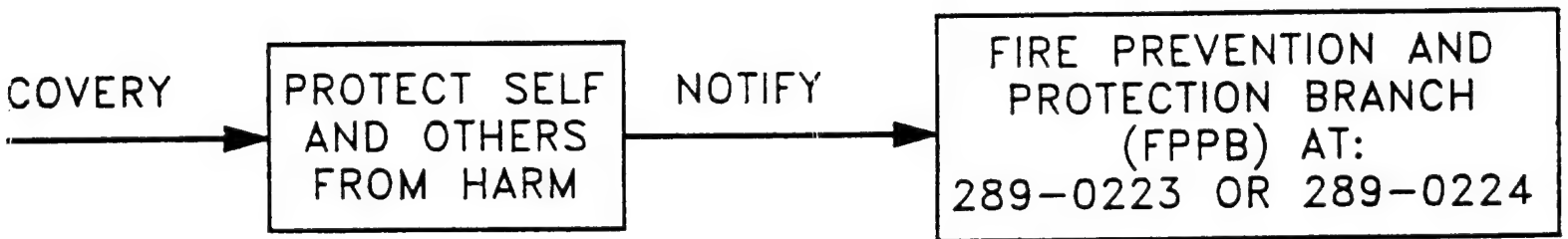


## INCIDENT

- CHEMICAL SPILL OR ACCIDENT
- PETROLEUM SPILL OR ACCIDENT
- DISCOVERY OF ORDNANCE OR  
CHEMICAL AGENT (SURETY MATERIEL)
- FIRE OR EXPLOSION
- TORNADO SIGHTING OR
- LIGHTNING STRIKE
- AIRPLANE CRASH
- OTHER EVENT WHICH COULD  
PRESENT A HAZARD TO  
HUMAN HEALTH OR THE  
ENVIRONMENT

DISCOVERY

# CIDENT RESPONSE



POST IN A CONSPICUOUS LOCATION

CP, RMA  
20 JAN 95

TABLE I.1  
INSTALLATION ON-SCENE COORDINATIONS  
TELEPHONE NUMBERS AND PAGER NUMBERS  
(as of 20 JAN 95)

Title	Name	Home Phone	Office Phone	Cellular Phone	Pager
PRIMARY					
Chief, Remedial Operations Branch	Dave Strang	337-0240	289-0506		760-8286
ALTERNATES					
1. Chief, Interim Response Branch	Bruce Huenefeld	271-9495	289-0240	898-4216	760-8287
2. Chief, Remedial Planning Branch	Brian Anderson	841-4130	289-0248	324-0728	760-8248
3. Chief, Remedial Execution Branch	Rick Beardslee	277-0503	289-0137		891-1766
4. Chief, Safety, Health & Env	LTC Bobby R. Templin	699-4860	289-0441	888-3760	760-8292



CP, RMA  
20 JAN 95

TABLE I.2  
INSTALLATION RESPONSE TEAM PERSONNEL  
TELEPHONE NUMBERS AND RADIO CALL SIGNS  
(as of 20 JAN 95)

Position	Name	Phone	Pager	Cellular Phone
----------	------	-------	-------	-------------------

Installation On-Scene Coordinator (IOSC)

See Table I.1

Emergency Control Center (ECC) Team Personnel

ECC Director/Assistant IOSC

Primary	Brian Anderson	289-0248	760-8284	324-0728
Alternate	LTC Bobby R. Templin	289-0441	760-8292	888-3760

Counsel

	MAJ Mark Connor	289-0147	851-9878	
	Jim Gilliam	289-0145	851-9878	

Public Affairs Office

Primary	Bill Thomas	289-0143	1-800- 759-7243 X24335	888-3761
Alternate	Ruth Mecham	289-0337		324-5897

PM Support Division

Primary	Wayne Pralle	289-0400		
Alternate	Frank Wise	289-0340	851-9944	

Plotters/Radio Operators

Primary	Bill Benning	289-0369		
Primary				
Alternate	Paul Lucas	289-0210		

Recorder

Primary	Connie Kniss	289-0141		
Alternate	Sally Bortz	289-0302		

Contracting  
Off Rep

	Karen Simpson	289-0130	851-9972	
--	---------------	----------	----------	--

CP, RMA  
20 JAN 95

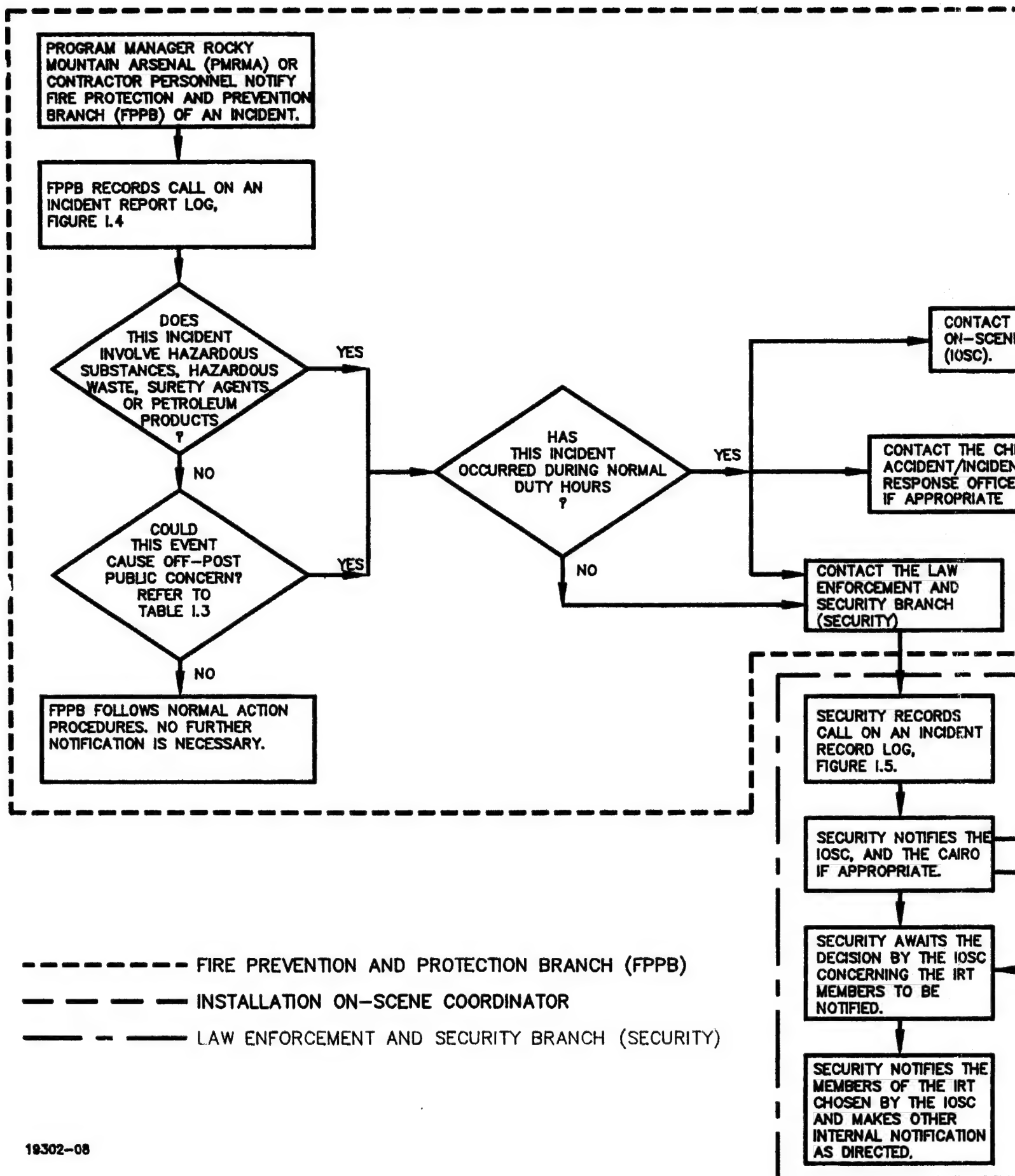
TABLE I.2 (CONT)  
INSTALLATION RESPONSE TEAM PERSONNEL  
TELEPHONE NUMBERS AND RADIO CALL SIGNS

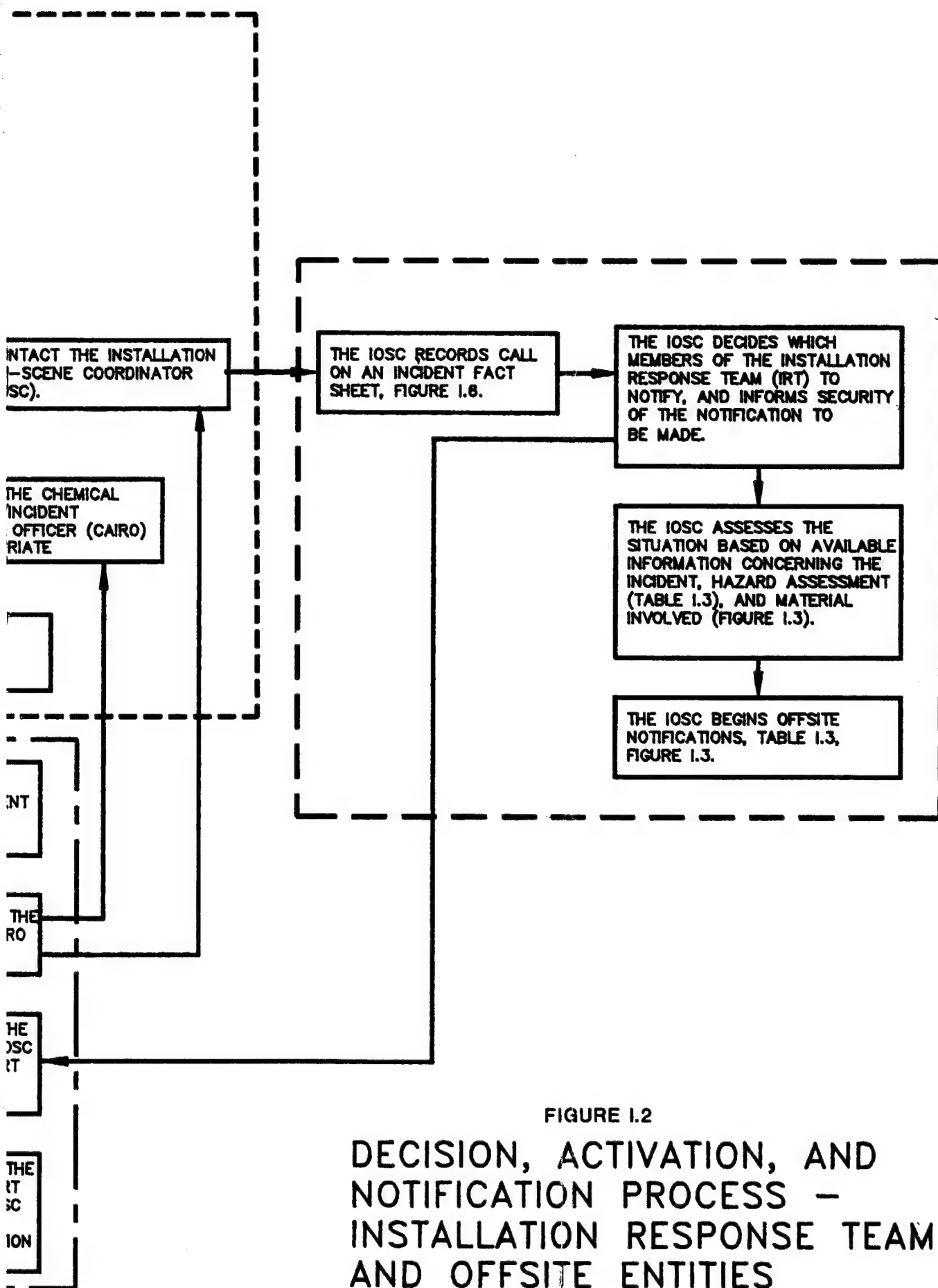
Position	Name	Phone	Pager	Cellular Phone
Safety, Health & Environment				
	LTC Bobby R. Templin	289-0441	760-8292	760-8292
<u>Emergency Response Team (ER) Personnel</u>				
Safety, Health & Environment				
Safety Temp Alt.	CPT Kevin Nell	289-0171		
Industrial Hygienist	Greg Condon	289-0545		
Security	Larry Acosta	289-0542	851-9953	
Chemical Accident/Incident Response Officer				
Primary	Tom James	289-0246		478-7537
Alternate	Senior Fire Officer on Duty	289-0190 289-0223	(24-hr emergency number)	
Fire Prevention and Protection Branch IOC				
Primary	Marty Wittig	289-0192		
Alternate	Senior Fire Officer on Duty	289-0190		
Law Enforcement Branch Representative				
Primary	Bill Benning	289-0369		
Alternate	David Davenport	289-0367		
Public Works				
Primary	Jim Green	289-0412		898-4217
Alternate	James Farnham	289-0413		

CP, RMA  
20 JAN 95

TABLE I.2 (CONT)  
INSTALLATION RESPONSE TEAM PERSONNEL  
TELEPHONE NUMBERS AND RADIO CALL SIGNS

Position	Name	Phone	Pager	Cellular Phone
Chemist				
Primary	Greg Mohrman	289-0215	760-8265	
Alternate	Elijah Jones	289-0194	760-8245	
Logistics Branch Representative				
Primary	Virginia Harris	289-0390		
Alternate	Frank Wise	289-0340	851-9944	
Fish and Wildlife Representative				
Primary	Greg Langer	289-0232	760-8280	
Alternate	Ray Rauch	289-0232		







**TABLE I.3**  
**HAZARD ASSESSMENT AND EXTERNAL NOTIFICATION PLAN a/**

TERM	DEFINITION	IMPLICATION	EXTERNAL NOTIFICATIONS	TELEPHONE NUMBERS
<b>MINOR EVENT</b>	Includes those situations which do not threaten the health and safety of the public, and would not cause public concern.	Will require action only by Program Manager Rocky Mountain Arsenal (PMRMA) personnel.	1) Only those notifications determined to be necessary by the Installation On-Scene Coordinator (IOSC)	
<b>UNUSUAL EVENT</b>	Includes those situations which could cause public concern but do not threaten the health and safety of the public (e.g. tornados which do not threaten to cause spills of hazardous materials, fires which are easily controlled by the Arsenal and are not spreading toxic fumes either on or off the Arsenal).	Will not require action by other Federal, State, or local units off the Arsenal to protect the local populations.	1) Governor of Colorado or designated representative 2) Division of Disaster Emergency Services (DODES) 3) EPA - Region VIII 4) Local response units as necessary - Adams County - Denver County	866-2471 279-8855 293-1788 288-1535 331-4146
<b>ALERT</b>	Includes those situations which currently pose no threat to persons on or off the Arsenal but are seen as having the potential to develop into Site Emergencies or General Emergencies (e.g. fire which could threaten to release toxic fumes on or off the Arsenal).	Could require action by other Federal, State, or local units off the Arsenal to protect the local populations.	1) Governor of Colorado or designated representative 2) DODES 3) EPA - Region VIII 4) Local response units as necessary - Adams County - Denver County	866-2471 279-8855 293-1788 288-1535 331-4146
<b>SITE EMERGENCY</b>	Includes those situations which threaten actual harm to the safety and health of personnel located on the Arsenal or to the Arsenal environment, but pose no threat to persons or property located off the Arsenal (e.g. spills of hazardous materials or wastes which can be contained on the Arsenal, spread of exclusion zones due to increased concentrations of hazardous air pollutants or due to weather or atmospheric conditions).	Could require action by other Federal, State, or local units off the Arsenal under certain circumstances (mutual aid fire fighting, etc...) but not for the purpose of protecting the local populations.	1) Governor of Colorado or designated representative 2) DODES 3) EPA - Region VIII 4) Local response units as necessary - Adams County - Denver County 5) Denver City Mayor 6) Commerce City Mayor	866-2471 279-8855 293-1788 288-1535 331-4146 575-2721 289-3611
<b>GENERAL EMERGENCY</b>	Includes those situations which threaten actual harm to the safety and health of persons located on or off the Arsenal (e.g. spills of hazardous materials or wastes into a creek flowing off the Arsenal, grass fires which threaten to burn off-post, spread of exclusion zones to or outside of Arsenal boundaries due to increased concentrations of hazardous pollutants or due to weather or atmospheric conditions).	Will require action by Federal, State, or local units off the Arsenal to protect the health and safety of the local populations.	1) Governor of Colorado or designated representative 2) DODES 3) EPA - Region VIII 4) Local response units as necessary - Adams County - Denver County 5) Denver City Mayor 6) Commerce City Mayor	866-2471 279-8855 293-1788 288-1535 331-4146 575-2721 289-3611

a/ These notifications are based on Standing Operating Procedure No. GC-01. Other external notification requirements are shown in Figure 1.3.

with external notification requirements, according to written agreements by PMRMA. Other external notification requirements are discussed in Section 5.

If an incident is determined to be either a site emergency or a general emergency, the Emergency Control Center (ECC) must be activated. In this case the IOSC will direct Security to notify all IRT personnel.

Security will maintain an updated list of IRT members' names, work and home telephone numbers, and addresses in the event that the IOSC or other members of the IRT must be notified to respond to an incident. Security will also maintain a list of contractor/tenant contacts and emergency phone numbers.

Security will use these lists to record those personnel whom the IOSC determines should be notified. When Security contacts Program Manager Rocky Mountain Arsenal (PMRMA) or contractor personnel, the notification time will also be recorded. Security and the IOSC will track who has and who has not been notified.

The ECC is located in Room 231 of the Administration Building (Building 111). The ECC is equipped with telephones, a radio capable of transmitting and receiving on the Security and Emergency Radio Networks, detailed maps of RMA, a copy of this Contingency Plan (CP), and a desktop computer used to calculate the downwind hazard. The alternate ECC is the Fire Station (Building 312).

The ECC need not be activated if an incident is classified as a minor event, an unusual event, or an alert. In these less serious events, only members of the IRT needed to aid in the response and cleanup effort for the particular incident will be notified. Again, the IOSC will direct Security to contact the appropriate IRT personnel.

## SECTION 4

### RESPONSIBILITIES OF THE INSTALLATION RESPONSE TEAM

The Installation Response Team (IRT) is comprised of the Emergency Control Center Team (ECCT) and Emergency Response Team (ERT) (Figure I.1), and is headed by the Installation On-Scene Coordinator (IOSC). The responsibilities of the IOSC and the individual members of the IRT are discussed in the following paragraphs. The IRT includes, but is not limited to, the following members.

#### 4.1 INSTALLATION ON-SCENE COORDINATOR

The IOSC is responsible for coordinating the activities of the IRT in the containment, control, and cleanup of accidental releases or other incidents as appropriate. He is the primary point of contact in an incident. The IOSC must determine the hazard potential of an incident and determine whether a release is reportable under state or federal guidelines (Volume II, Attachment B, Appendix E). The IOSC also notifies appropriate local, state, federal, and Army agencies (see Section 5). For Program Manager Rocky Mountain Arsenal (PMRMA), the IOSC is the Chief, Compliance Office. The Alternate IOSC is the individual who performs the duties of the IOSC in his absence. The IOSC and alternates are listed below.

- Installation On-Scene Coordinator (IOSC)

Chief, Compliance Office  
AMXRM-C  
(303) 289-0441  
DSN 556-2141

- First Alternate

Chief, Technical Operations Division  
AMXRM-T  
(303) 289-0198  
DSN 556-2198

- Second Alternate

Chief, Environmental Engineering Division  
AMXRM-E  
(303) 289-0180  
DSN 556-2180

- Third Alternate

Chief, Engineering Design Branch  
AMXRM - TED  
(303) 289-0166  
DSN 556-2166

#### **4.2 FIRE PREVENTION AND PROTECTION BRANCH REPRESENTATIVE**

Rocky Mountain Arsenal (RMA) maintains its own fire department, the Fire Prevention and Protection Branch (FPPB) which is part of the Program Manager Support Division. The fire department is located in Building 312 near the South Plants Area. All buildings, structures, and facilities at RMA are inspected at weekly, monthly, or semiannual intervals by the FPPB, in accordance with recommended frequencies and local requirements. Fire extinguishers are inspected on a monthly basis. Whenever deemed necessary, firefighters and fire prevention/control apparatus are furnished to stand by during any welding, cutting, or other hazardous operations or loading/unloading processes. Firefighters will inspect the site if any cutting and/or welding operations occur outside of established welding areas prior to issuing or closing a Hot Work Permit. Spot inspections are frequently made during these operations to assure that fire safety requirements are being observed. Where accidental spills have occurred, the FPPB representative will inspect the spill site for any potential hazards which may be present. If the potential for a fire exists, preventive and corrective measures must be taken prior to containment and cleanup procedures. If a fire is present at the spill site, proper types of equipment and chemicals must be used in containing the fire. The FPPB representative and alternate are listed below. In addition, the FPPB is in charge of emergency medical care for PMRMA personnel and contractor personnel.

- Fire Prevention and Protection Branch Representative

Chief, Fire Prevention and Protection Branch  
AMXRM-SFP  
(303) 289-0192  
(303) 289-0223 (24-hour emergency number)  
DSN 556-2192

- Alternate

Senior fire officer on duty

(303) 289-0190

(303) 289-0223 (24-hour emergency number)

DSN 556-2192

#### 4.3 COMPLIANCE OFFICE - SAFETY REPRESENTATIVES

The Safety and Occupational Health Manager is responsible for the accident/injury reporting for higher headquarters. The Safety and Occupational Health Manager will be situated in the Emergency Control Center (ECC). The Safety Engineer and the Industrial Hygienist shall be first responders. These persons shall be responsible for determining the level of personal protective clothing and equipment and other safe procedures to be followed.

- Safety and Occupational Health Manager • Industrial Hygienist

(303) 289-0388

DSN 556-2338

(303) 289-0112

DSN 556-2112

- Safety Engineer

(303) 289-0112

DSN 556-0112

#### 4.4 FACILITIES MAINTENANCE BRANCH REPRESENTATIVE

The Facilities Maintenance Branch is primarily responsible for the maintenance of buildings, roads, grounds, water supply, wastewater systems, and electrical systems. Under the direction of the IOSC, the Facilities Maintenance representative provides the capability for moving soil and sand, digging ditches, opening manholes, and constructing barriers and other appropriate structures necessary for adequate spill control and cleanup procedures. This team member is also responsible for evaluating the effects of the spill on, and directing any actions that must be taken in the area of, electrical power, drinking water supply, and wastewater disposal systems.

- Facilities Maintenance Branch Representative

Chief, Facilities Maintenance Branch

AMXRM-TF

(303) 289-0412

DSN 556-2412

- Alternate

Foreman, Maintenance Section

AMXRM-TFR

(303) 289-0417

DSN 556-2417

#### 4.5 CHEMIST

The organic and/or analytical chemist assigned to the IRT recommends the procedures and techniques to be used to identify, sample, contain, disperse, reclaim, and remove oil and hazardous substances at the spill area. The chemist is responsible for determining and reporting to the IOSC whether any potentially harmful situation and/or reactions may occur when containing or cleaning up the accidental release of oil or hazardous substances. The chemist provides information on the chemical properties of the spilled material and the compatible products to be used in the containment and cleanup. Coordination with the IOSC provides for the safety of all personnel and the efficient containment and cleanup at the discharge site.

- Chemist

Chief, Laboratory Support Division  
AMXRM-LS  
(303) 289-0215  
DSN 556-2215

- Alternate

Chief Analytical Branch  
AMXRM-LSA  
(303) 289-0195  
DSN 556-2195

#### 4.6 LAW ENFORCEMENT AND SECURITY BRANCH REPRESENTATIVE

Security personnel are responsible for the security of the spill site. Responsibilities include assistance in the evacuation of personnel from the site, and provision for traffic control points at appropriate locations in close proximity to the release in order to restrict access to authorized personnel and equipment.

- Security Officer

Chief, Law Enforcement and Security Branch  
AMXRM-SS  
(303) 289-0367  
(303) 289-0369/0372 (24-hour emergency number)  
DSN 556-0372

- Alternate

Senior Security Officer on duty  
(303) 289-0369/0372 (24-hour emergency number)  
DSN 556-0372

#### 4.7 PUBLIC AFFAIRS OFFICER

The Public Affairs Officer (PAO) is responsible for communications with the press and the public. This is a sensitive position, particularly in the event of a major spill or one that involves visible damage to adjoining areas not belonging to RMA. All communication with the public and the press will be handled by the PAO.

- Public Affairs Officer

AMXRM-PAO  
(303) 289-0143  
DSN 556-0143

#### 4.8 COUNSEL

It is this individual's responsibility to advise the Program Manager and the IOSC of possible legal ramifications associated with the spill. Counsel also ensures that information, records, photographs, and sampling, if necessary, is adequate to meet all legal requirements in the event that a spill crosses the installation boundary or contaminates ground water.

- Counsel

AMXRM-GC  
(303) 289-0147  
DSN 556-2147

#### 4.9 COMPLIANCE OFFICER

The compliance officer assigned to the IRT is responsible for providing guidance on the regulatory requirements outlined in federal legislation such as the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) as amended by the Superfund Amendments and Reauthorization Act (SARA), the Resource Conservation and Recovery Act (RCRA), and the Clean Water Act (CWA). For example, the compliance officer identifies reportable spills and advises the IOSC on notification of the proper authorities in the appropriate time frame. The compliance officer also provides assistance and follow-up during spill cleanup activities to ensure that all oil or hazardous substances are disposed of properly.

- Compliance Officer

AMXRM-C  
(303) 289-0164  
DSN 556-2441

**4.10 CHEMICAL ACCIDENT/INCIDENT RESPONSE OFFICER**

[Information Under Development]

**4.11 AIR MONITORING TEAM**

[Information Under Development]

**4.12 LOGISTICS BRANCH REPRESENTATIVE/CHIEF**

[Information Under Development]

**4.13 PLOTTER**

[Information Under Development]

**4.14 RADIO OPERATOR - CHARLIE NETWORK**

[Information Under Development]

**4.15 RECORDER**

[Information Under Development]

**4.16 HOTLINE TEAM**

[Information Under Development]

**4.17 DOWNWIND HAZARD CALCULATOR**

[Information Under Development]



## SECTION 5

### VERBAL NOTIFICATION OF OFFSITE ENTITIES

The Installation On-Scene Coordinator (IOSC) is responsible for verbally notifying appropriate offsite entities. Documentation forms are located in Section 6.

Notification of offsite entities is based on the following:

- The hazard assessment of the incident (Table I.3)
  - Minor event,
  - Unusual event,
  - Alert,
  - Site emergency, or
  - General emergency, and
- In the event of a release, if a reportable quantity of any of the following materials is released (Figure I.3)
  - Extremely hazardous substance
  - Hazardous substance or
  - Oil.

Notification of offsite entities by the Installation On-Scene Coordinator (IOSC) is based on the following:

- the hazard assessment of the incident, and
- in the event of a release, the material and quantity released.

Table I.3 lists hazard assessment terms, definitions, implications, required verbal notifications, and telephone numbers.

If an incident is defined as a **Minor Event**, only those notifications determined to be necessary by the IOSC are required.

If an incident is defined as either an **Unusual Event** or an **Alert**, the following notifications are required:

- . Governor of Colorado or designated representative,
- . Division of Disaster Emergency Services (DODES),
- . U.S. Environmental Protection Agency (EPA) - Region VIII, and
- . Local response groups (e.g., Adams County and Denver County) as necessary.

If an incident is defined as either a **Site Emergency** or a **General Emergency**, the following notifications are required:

- . Governor of Colorado or designated representative,
- . DODES,
- . EPA - Region VIII,
- . Local response groups (e.g., Adams County and Denver County) as necessary,
- . Denver City Mayor, and
- . Commerce City Mayor.

Figure I.3 is a flow chart depicting the decision and notification process to be followed if an incident involves the release of materials.

If a release has reached, or could reach, State of Colorado air, surface waters or ground waters, the Colorado Department of Health (CDH) must be notified immediately.

If there has been a release to the environment of a reportable quantity (RQ) of an **extremely hazardous substance** or a **hazardous substance**, immediate notification of the following is required:

- . Local Emergency Planning Committee,
- . State Emergency Response Committee,
- . CDH - Hazardous Materials and Waste Management Division
- . EPA - Denver Emergency Response Branch,
- . National Response Center (NRC),
- . Army Operations Center (AOC),
- . Army Materiel Command/Department of the Army (AMC/DA), and
- . U.S. Army Toxic and Hazardous Materials Agency (USATHAMA).

# FLOW CHART FOR REPORTING

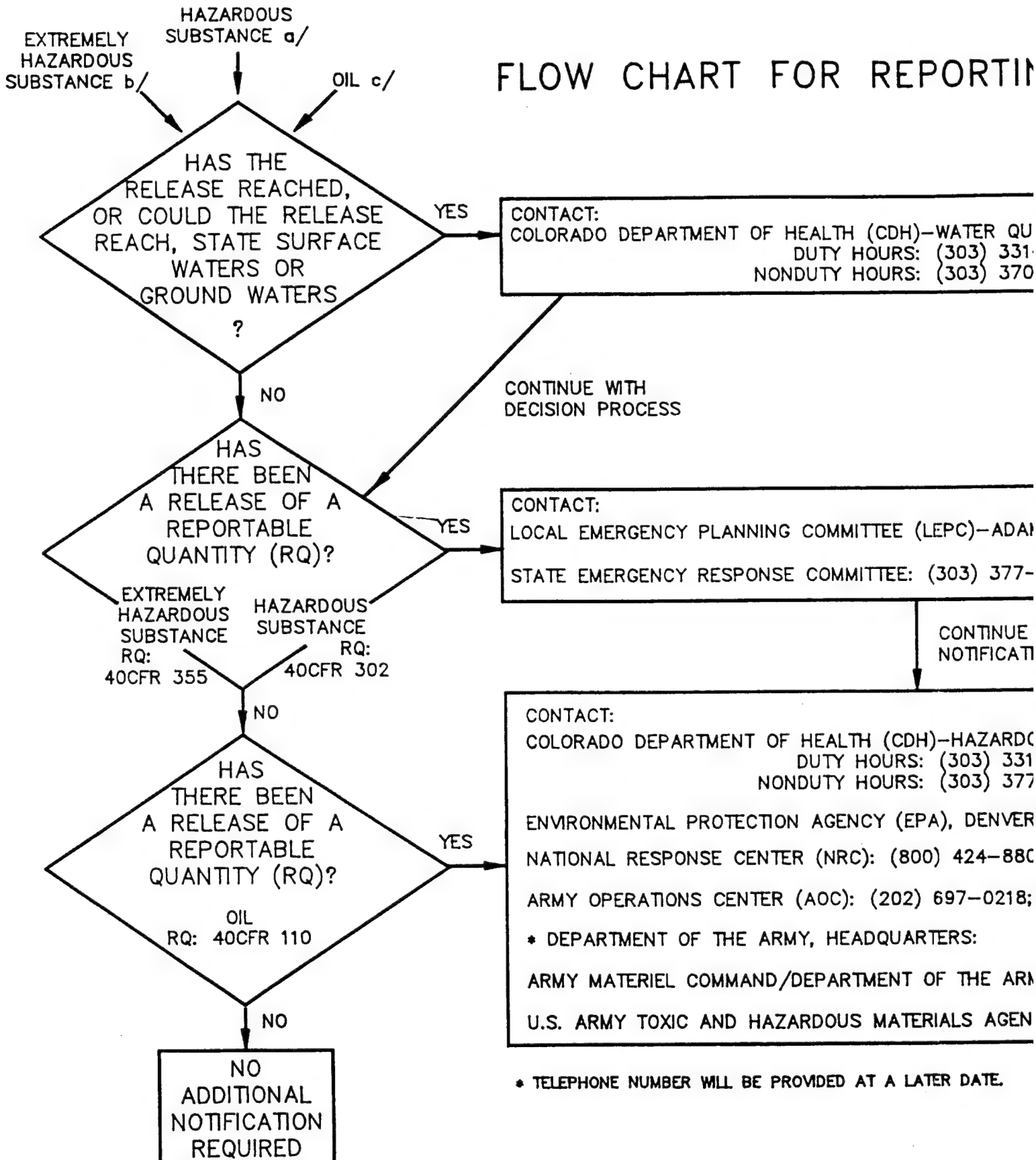


FIGURE I.3

## REPORTING RELEASES TO OFFSITE ENTITIES

WATER QUALITY CONTROL DIVISION  
(303) 331-4530  
(303) 370-9395

a/ A Hazardous Substance is any substance pursuant to 40 CFR Part 302. A list of hazardous substances and reportable quantities is provided in Volume II, Attachment B, Appendix E.

b/ An Extremely Hazardous Substance is a substance listed in Appendix A and B or 40 CFR Part 355. A list of extremely hazardous substances and their reportable quantities is provided in Volume II, Attachment B, Appendix E.

EPC)-ADAMS COUNTY: (303) 289-5441  
(303) 377-6326

c/ Oil includes oil of any kind or in any form, including, but not limited to: petroleum, fuel, oil, sludge, oil refuse, and oil mixed with wastes other than dredged spoil (Army Regulation 200-1).

CONTINUE WITH  
NOTIFICATIONS

-HAZARDOUS MATERIALS & WASTE MANAGEMENT DIVISION  
(303) 331-4830  
(303) 377-6326

A), DENVER EMERGENCY RESPONSE BRANCH: (303) 298-1788  
) 424-8802

697-0218; DSN 227-0218

ERS:

F THE ARMY: (AMC/DA): DSN 284-9016

IALS AGENCY (USATHAMA): (301) 671-4714/2427

ER DATE.

If there has been a release of an RQ of oil of any kind or in any form, immediate notification is required as follows:

- . CDH - Hazardous Materials and Waste Management Division,
- . EPA - Denver Emergency Response Branch,
- . NRC,
- . AOC,
- . AMC/DA, and
- . USATHAMA.

Reportable quantities for hazardous and extremely hazardous substances are listed in Volume II, Attachment B, Appendix E.

If it is determined that notifications must be made, the verbal notification should include the following (refer to Section 6):

- . Chemical name,
- . Quantity of release,
- . Time and duration of release,
- . Medium or media into which the release occurred,
- . Known or anticipated health risks,
- . Precautions taken, and
- . Name and telephone number of contact person.

All of this information will be tracked from the beginning of the incident by the Fire Prevention and Protection Branch (FPPB), the Law Enforcement and Security Branch, and the IOSC.

## **SECTION 6**

### **REQUIRED WRITTEN REPORTS AND RECORDKEEPING**

This section discusses incident written report requirements. Included are installation records, the incident assessment report, and the facility restart notification.

#### **6.1 INSTALLATION RECORDS**

The Fire Prevention and Protection Branch (FPPB) records all incoming incident reports on an Incident Report Log (Figure I.4). If it is appropriate, the Law Enforcement and Security Branch is notified of an incident by the FPPB. The Law Enforcement and Security Branch records all relayed incident information on an Incident Record Log (Figure I.5). The Installation On-Scene Coordinator (IOSC) is notified of an incident by the FPPB and/or the Law Enforcement and Security Branch as appropriate. The IOSC documents all emergencies on an Incident Fact Sheet (Figure I.6). The Incident Fact Sheet should be updated as the incident unfolds.

The Incident Fact Sheet is used to provide Program Manager Rocky Mountain Arsenal (PMRMA) with facts about an unplanned event and to disseminate information to those responsible for preventing recurrence of similar events. The original of each completed Incident Fact Sheet is retained by the IOSC at Rocky Mountain Arsenal (RMA) as part of the operating record. The Incident Report Log (Figure I.4) completed by the FPPB, and the Incident Record Log (Figure I.5) completed by the Law Enforcement and Security Branch, are also retained by the IOSC as part of the incident record.

#### **6.2 INCIDENT ASSESSMENT REPORTS**

##### **6.2.1 Agencies**

The IOSC must submit a written report to Colorado Department of Health (CDH) within 15 days of an incident that involves fire, explosion, or release of hazardous waste or hazardous waste constituents to the air, soil, or surface water.

FIGURE I.4

FIRE PREVENTION AND PROTECTION BRANCH  
INCIDENT REPORT LOG

PAGE 1 OF

ROCKY MOUNTAIN ARSENAL  
COMMERCE CITY, COLORADO  
FIRE PREVENTION AND PROTECTION BRANCH

1. INCOMING CALL

A. DATE OF INCIDENT/TIME \_\_\_\_\_ / \_\_\_\_\_  
B. FROM \_\_\_\_\_  
C. ORIGINATOR OF VERBAL INCIDENT REPORT \_\_\_\_\_

2. INCIDENT IDENTIFICATION

A. LOCATION OF INCIDENT \_\_\_\_\_  
B. INCIDENT TYPE: ☐ SPILL ☐ FIRE ☐ CHEMICAL AGENT ☐ OTHER  
C. INJURIES ☐ YES ☐ NO ☐ TYPE: \_\_\_\_\_

3. DESCRIPTION OF INCIDENT

A. TYPE AND/OR CHEMICAL NAME, AND ESTIMATED AMOUNT OF MATERIAL  
B. MEDIUM OR MEDIA INTO WHICH RELEASES OCCURRED  
C. RECEIVING STREAM OF WATERS  
D. DURATION OF DISCHARGE  
E. MAGNITUDE OF THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT

4. NOTIFICATION OF SECURITY

A. TIME OF NOTIFICATION  
B. NAME OF PERSON NOTIFIED

5. NOTIFICATION OF INSTALLATION ON-SCENE COORDINATOR (IOSC):

A. TIME OF NOTIFICATION  
B. NAME OF PERSON NOTIFIED

FIGURE I.5

LAW ENFORCEMENT AND SECURITY BRANCH  
INCIDENT RECORD LOG

PAGE 1 OF

ROCKY MOUNTAIN ARSENAL  
COMMERCE CITY, COLORADO  
SECURITY OFFICE

1. INCOMING CALL

A. DATE OF INCIDENT/TIME \_\_\_\_\_ / \_\_\_\_\_  
B. FROM \_\_\_\_\_  
C. ORIGINATOR OF VERBAL INCIDENT REPORT \_\_\_\_\_

2. INCIDENT IDENTIFICATION

A. LOCATION OF INCIDENT \_\_\_\_\_  
B. INCIDENT TYPE: ☐ SPILL ☐ FIRE ☐ CHEMICAL AGENT ☐ OTHER  
C. INJURIES: ☐ YES ☐ NO ☐ TYPE: \_\_\_\_\_

3. DESCRIPTION OF INCIDENT

A. TYPE AND/OR CHEMICAL NAME, AND ESTIMATED AMOUNT OF MATERIAL  
B. MEDIUM OR MEDIA INTO WHICH RELEASES OCCURRED  
C. RECEIVING STREAM OF WATERS  
D. DURATION OF DISCHARGE  
E. MAGNITUDE OF THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT  
ADDITIONAL INFORMATION MAY BE INCLUDED ON THE BACK

4. NOTIFICATION OF INSTALLATION ON-SCENE COORDINATOR (IOSC) OR ALTERNATE

A. TIME OF NOTIFICATION  
B. NAME OF PERSON NOTIFIED

5. PREVAILING WIND SPEED AND DIRECTION

6. RETURN CALL FROM IOSC

A. TIME OF RETURN CALL  
B. NAME OF PERSON RETURNING CALL  
C. INSTRUCTIONS 1.) PROCEED WITH NOTIFICATION OF INSTALLATION  
RESPONSE TEAM (IRT) OR:  
2.) DO NOT NOTIFY IRT PERSONNEL



FIGURE I.6

INSTALLATION ON-SCENE COORDINATOR  
INCIDENT FACT SHEET

PAGE 1 OF

1. ROCKY MOUNTAIN ARSENAL
2. COMMERCE CITY, COLORADO
3. NAME AND PHONE NUMBER OF IOSC \_\_\_\_\_
4. DATE OF INCIDENT \_\_\_\_\_

6. INCIDENT IDENTIFICATION

A. LOCATION OF INCIDENT \_\_\_\_\_

B. INCIDENT TYPE ☐ SPILL ☐ FIRE ☐ CHEMICAL AGENT ☐ OTHER

C. INJURIES ☐ YES ☐ NO ☐ TYPE: \_\_\_\_\_

7. DESCRIPTION OF INCIDENT

A. TYPE AND/OR CHEMICAL NAME, AND ESTIMATED AMOUNT OF MATERIAL  
\_\_\_\_\_

B. MEDIUM OR MEDIA INTO WHICH RELEASE OCCURRED  
\_\_\_\_\_

C. RECEIVING STREAM OR WATERS  
\_\_\_\_\_

D. DURATION OF DISCHARGE  
\_\_\_\_\_

E. MAGNITUDE OF THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT  
ADDITIONAL INFORMATION MAY BE INCLUDED ON THE BACK  
\_\_\_\_\_

8. CONSEQUENCES OF INCIDENT  
\_\_\_\_\_

9. HAZARD ASSESSMENT (TABLE I.3)

☐ MINOR EVENT ☐ ALERT ☐ GENERAL EMERGENCY  
☐ UNUSUAL EVENT ☐ SITE EMERGENCY

10. ACTIONS TAKEN (A) OR PLANNED (B)  
\_\_\_\_\_

11. ANTICIPATED CLEANUP EFFECTIVENESS  
\_\_\_\_\_

12. APPARENT CAUSE(S) OF INCIDENT  
\_\_\_\_\_

INSTALLATION ON-SCENE COORDINATOR  
INCIDENT FACT SHEET

PAGE 2 OF

13. AGENCIES NOTIFIED/TIME OF NOTIFICATION/PERSON CONTACTED (TABLE 1.3 AND FIGURE 1.3)

- ☐ GOVERNOR OF COLORADO OR DESIGNATED REPRESENTATIVE ..... (303) 866-2471
- ☐ DODES. .... (303) 279-8855
- ☐ EPA - REGION VIII ..... (303) 293-1788
- LOCAL RESPONSE UNITS AS NECESSARY
- ☐ - ADAMS COUNTY ..... (303) 288-1535
- ☐ - DENVER COUNTY ..... (303) 331-4146
- ☐ DENVER CITY MAYOR ..... (303) 575-2721
- ☐ COMMERCE CITY MAYOR ..... (303) 289-3611
- COLORADO DEPARTMENT OF HEALTH (CDH)-WATER QUALITY CONTROL DIVISION
- ☐ - DUTY HOURS ..... (303) 331-4530
- ☐ - NONDUTY HOURS ..... (303) 370-9395
- COLORADO DEPARTMENT OF HEALTH (CDH)-HAZARDOUS MATERIALS & WASTE MANAGEMENT DIVISION
- ☐ - DUTY HOURS ..... (303) 331-4830
- ☐ - NONDUTY HOURS ..... (303) 377-6326
- ☐ ENVIRONMENTAL PROTECTION AGENCY (EPA)  
DENVER EMERGENCY RESPONSE BRANCH ..... (303) 298-1788
- ☐ LOCAL EMERGENCY PLANNING COMMITTEE ..... (303) 289-5441
- ☐ STATE EMERGENCY RESPONSE COMMITTEE ..... (303) 377-6326
- ☐ NATIONAL RESPONSE CENTER (NRC) ..... (800) 424-8802
- ☐ ARMY OPERATIONS CENTER (AOC) ..... (202) 697-0218
- ☐ ARMY MATERIEL COMMAND/DEPARTMENT OF THE ARMY: (AMC/DA) ..... DSN 284-9016
- ☐ U.S. ARMY TOXIC AND HAZARDOUS MATERIALS AGENCY (USATHAMA): ..... (301) 671-4714/2427

If an incident involves the release of a reportable quantity (RQ) of a hazardous substance or extremely hazardous substance, the IOSC must send a written report to the following offsite entities:

- . Local Emergency Planning Committee (LEPC)
- . State Emergency Response Commission,
- . National Response Center (NRC),
- . Army Materiel Command/Department of the Army (AMC/DA), and
- . U.S. Army Toxic and Hazardous Materials Agency (USATHAMA).

The IOSC must send written reports to AMC/DA and USATHAMA within 5 working days after verbal notification of the incident. Written reports to AMC/DA and USATHAMA should include release location, topographic maps, and flow diagrams.

If an incident involves the release of an RQ of oil, the IOSC must send a written incident report to the following offsite entities:

- . CDH,
- . AMC/DA, and
- . USATHAMA.

CDH must receive a written report within 60 days of the incident. AMC/DA and USATHAMA must receive written reports concurrently, within 5 working days after verbal notification.

#### **6.2.2 Report Requirements**

All incident reports to all appropriate entities must include the following information:

- . Name, address, and telephone number of the owner or operator;
- . Name, address, and telephone number of the facility;
- . Date, time, and type of incident;
- . Name and quantity of material(s) involved;
- . Extent of injuries, if any;
- . Actions taken during the incident response;
- . Assessment of actual or potential hazards to human health or the environment, when applicable, including:
  - any known or anticipated acute or chronic health risks associated with the release, and
  - advice regarding medical attention;

- . Estimated quantity and disposition of recovered material that resulted from cleanup of the incident;
- . Cause of the incident; and
- . Description of corrective action taken to prevent recurrence of the incident.

### **6.3 FACILITY RESTART NOTIFICATION**

Following a response to a fire, explosion, natural disaster, or release that may present a hazard to human health or the environment, the IOSC will verify, via line management, that the incident area and emergency equipment cleanup is complete. PMRMA will notify CDH that cleanup procedures are complete and that emergency equipment is clean and fit for its intended use before normal operations are resumed in the affected area(s). The U.S. Environmental Protection Agency (EPA) Region VIII and the U.S. Army Materiel Command (AMC) will also be notified of intended facility restart, if necessary.

## **SECTION 7**

### **EMERGENCY EQUIPMENT**

#### **7.1 COMMUNICATIONS EQUIPMENT**

In the event of an incident, the Installation On-Scene Coordinator (IOSC) may coordinate the response effort through the use of telephones and/or radio communications networks which include telephones, mobile phones, citizens band radios, and hand-held two-way radios.

Rocky Mountain Arsenal (RMA) has available and will utilize three separate radio networks for communications during an incident alert or exercise. These are as follows:

- . Security Network - "X-Ray" prefix,
- . Emergency Network - "Charlie" prefix, and
- . Technical Escort Network.

Other radio frequencies may be used by contractor personnel. Table I.4 lists the personnel and positions which have access to the Security and/or Emergency Networks.

The U.S. Army Technical Escort Unit (USATEU) will be requested to respond to a chemical agent incident which is beyond the capabilities of available RMA equipment and personnel. The USATEU is equipped with radios, and will transmit and receive on their dedicated frequency.

RMA emergency warning signals are listed in Table I.5. The Fire Prevention and Protection Branch (FPPB) has the authority to sound the siren in the event of a tornado. However, sounding the siren for any other reason must be authorized by the IOSC.

#### **7.2 EMERGENCY VEHICLES**

The FPPB is equipped with three fire engines, one tanker, one modular Basic Life Support ambulance, and one backup transport vehicle. The Fire Chief's 4-wheel-drive vehicle can also be used as a mobile command post. Table I.6 lists the fire engines and tanker available at RMA and specifics concerning each vehicle.

TABLE I.4

SECURITY AND EMERGENCY NETWORK ACCESS<sup>a/b/</sup>  
(Under revision - information may be incorrect)

AAF 650 NETWORK CONTROL (DESK OFFICER)		AAF 655 FIRE BASE	
Call Signs		Call Signs	
X 5	DEPUTY PROGRAM MANAGER	C 5	
X 6	PROGRAM MANAGER	C 6	
	EMERGENCY CONTROL CENTER (ECC)	C 6a	
	ALTERNATE ECC [Fire Prevention and Protection Branch (FPPB)]	C 6b	
X 7	TECH ESCORT DETACHMENT	C 7	
	TECH ESCORT DECON TEAM	C 10	
	HOT LINE FOREMAN	C 10D	
	SITE (HOT LINE) MONITORING TEAM	C 11	
	DOWNWIND MONITORING TEAM	C 15	
	FIRE HEADQUARTERS (Bldg 312)	C 16	
	FIRE CHIEFS VEHICLE	FIRE BASE, C18	
	FPPB ENGINE #1 (RMA 237)	ADMIN-1	
	FPPB ENGINE #2 (RMA 235)	ENGINE-1	
	FPPB ENGINE #3 (RMA 234)	ENGINE-2	
	FPPB MINI PUMPER (RMA 236)	ENGINE-3	
	FPPB AMBULANCE (RMA 195)	ATTACK-1	
	FPPB AMBULANCE (RMA 194)	AMBULANCE-1	
	FPBB PICKUP (RMA 41)	AMBULANCE-2	
	FPBB TANKER (RMA 168)	ADMIN-2	
	FIRE CHIEF (Wittig)	TANKER-1	
	ASSISTANT FIRE CHIEF (Wilhelm)	CHIEF 1	
	ASSISTANT FIRE CHIEF (Teter)	CHIEF 2	
	FIRE CAPTAIN (Smith)	CHIEF 3	
	FIRE CAPTAIN (Hilinski, Training Off)	COMMAND 4	
	FIRE CAPTAIN (Hlavaty)	COMMAND 5	
X 25	CHEMICAL ACCIDENT/INCIDENT RESPONSE OFFICER (CAIRO)	COMMAND 6	
	ASSISTANT CAIRO	C 25	
X 27	CHIEF SECURITY OFFICE	C-25A	
X 29	SECURITY SPECIALIST	C 27	
X 30	SHIFT COMMANDER	C 29	
X 31	ASST SHIFT COMMANDER	C 30	
X 33	PATROL 33		
X 34	PATROL 34		
X 35	SPECIAL RESPONSE TEAM		
	SAFETY OFFICE	C 40	
	PUBLIC AFFAIRS OFFICE (PAO)	C 41	
		C 42	
	HOT LINE TEAM	C 55	

TABLE I.4 (Continued)  
SECURITY AND EMERGENCY NETWORK ACCESS  
(Under revision - informatin may be incorrect)

---

AAF 650 NETWORK CONTROL  
(DESK OFFICER)

AAF 655  
FIRE BASE

---

X 56 HOT LINE GUARD REGISTRATION

X 63 POST #3 (WEST GATE)

X 64 POST #4 (SOUTH GATE)

STEARNS ROGER UNIT #1

C 80

STEARNS ROGER UNIT #2

C 81

STEARNS ROGER UNIT #3

C 82

STEARNS ROGER UNIT #4

C 83

X 99 HELICOPTER AERIAL OBSERVER

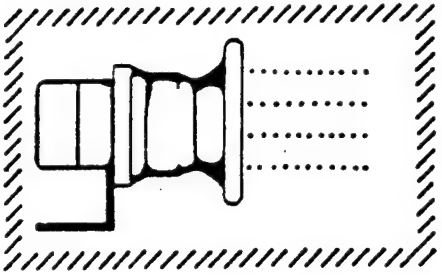
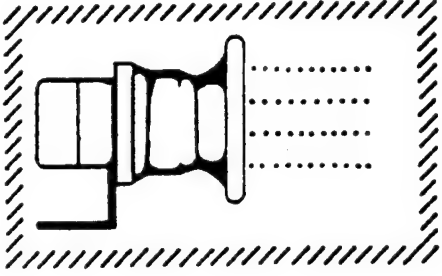
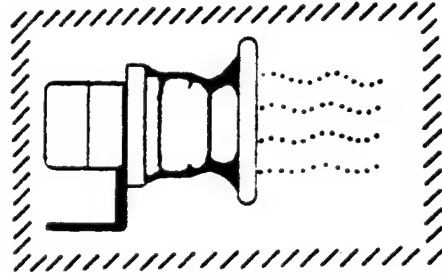
C 99

---

a/ Any other contractors or other elements using a radio on the "C" Network will be assigned a call sign as needed.

b/ The Security Office keeps an up-to-date copy of all radio call frequency.

TABLE I.5  
SITE EMERGENCY WARNING SIGNALS

Signal	Incident/Alarm Type	Response
	Steady siren - duration of 3 minutes	Attention - any peacetime emergency a/ (e.g. tornadoes, etc...)
	Steady siren - duration of 30 to 45 seconds	Chemical Accident/Incident b/
	Wailing up and down scale signal - duration of 3 minutes	Site-Wide Evacuation b/
	Verbal notification	Resume activities

a/ In the event of a tornado, the Fire Prevention and Protection Branch has the authority to immediately sound the site emergency signal to alert on-site personnel of danger.

b/ The situation will be assessed by the Installation On-Scene Coordinator and only through his authorization will emergency signals be sounded.



TABLE I.6  
 ROCKY MOUNTAIN ARSENAL  
 APPARATUS INFORMATION

<b>RMA 235: Radio Call Sign; Engine 2</b>			
1973 American Air Filter Co. Inc. (Military 530C), 465 cu in diesel			
6X6			
750 GPM Pumper (pump and roll)			
discharges	2½"	3	
	1½"	1	intakes 2½" 1
	4½"	2	
Water Tank		400	Gals
FOAM		55	Gals ATC/AFFF
HOSE			
Booster line 1"		150'	each reel (2 reels)
1½"		200'	preconnect
1½"		200'	skid load
2½"		1200'	
2½" soft suc.		12'	
4½" soft suc.		15'	rear on tailboard
NOZZLES			
ground sweep nozzles forward			
booster line	12-30 GPM Akron		
1½"	30-125 GPM TFT, Preconnect, Skid Load Akron		
2½"	50-350 GPM TFT		
LADDERS			
attic	10'		
roof	14'		
extension	24'		
 <b>RMA 168: Radio Call Sign; Tanker 1</b>			
1974 GMC 7500, V6-53N diesel, 6X6			
250 GPM (Pony pump)			
discharges 2½"		1	
intakes 2½"		1	
Water tank		2200	Gals
HOSE			
1½"		100'	preconnect
		100'	compartment #2
2½"		100'	compartment #2
2½" soft suc.		24'	
NOZZLES			
ground sweep nozzles forward			
1½"	30-125 GPM TFT		

TABLE I.6 (Continued)  
ROCKY MOUNTAIN ARSENAL  
APPARATUS INFORMATION

RMA 236:

Radio Call Sign; Attack 1

1987 Chevrolet K-30/3500, 6.2 ltr diesel, 4X4

250 GPM (Pump and Roll)

discharges	2½"	1	
	1½"	2	preconnects
intakes	3"	2	
Water Tank		250	Gals

HOSE

booster lines 1"	150'	rear
1½"	150'	each side total of 300' preconnect
2½"	350'	hose bed

NOZZLES

ground sweep nozzles forward

booster line	12-30 GPM, Akron
1½"	25-125 GPM, TFT

LADDERS

extension 16'

GENERATOR

5000 watts pre-wired

RMA 237: Radio Call Sign; Engine 1

1986 GMC-7000 (E-One), 8.2 ltr diesel, 4X4

1000 GPM Stationary Pump

250 GPM Pump-and-Roll pump

discharges	2½"	5	
intakes	2½"	1	
	6"	2	
Water Tank		750	Gals
Foam Tank		40	Gals ATC/AFFF

HOSE

booster line 1"	105'	2 - one right side, one left side
1½"	200'	preconnect rear
2½"	900'	left side of bed, straight lay
5"	500'	right side of bed, straight lay
2½"	50'	top of pump panel
1½"	150'	top of pump panel
6" soft suc.	15'	Compartment # 9

NOZZLES

booster line	12-30 GPM Akron
1½"	30-125 GPM preconnect TFT
deck gun	50-1000 GPM TFT
1½" - 2½"	50-350 GPM TFT

LADDERS

attic	12'
roof	14'
extension	24'

### 7.3 SPILL RESPONSE AND CLEANUP SUPPORT EQUIPMENT

A variety of equipment is available for containment and cleanup operations. Absorbent materials (booms, pads, sheets, rolls, and sand) are available to contain and remove minor discharges (2,000 gallons or less). Larger spills require the use of absorbents, earth-moving equipment (graders, bulldozers, trucks, front-end loaders), and/or pumps to remove excess liquids from the spill site.

Shovels, brooms, mops, empty drums, and miscellaneous construction materials are available at each location at which petroleum, oils, lubricants (POL), hazardous materials, or hazardous wastes are stored or handled. The absorbent materials available at RMA are listed below:

<u>TYPE</u>	<u>SIZE</u>	<u>APPROXIMATE CAPACITY</u>	<u>USE</u>
Sheets (50) (Polypropylene fibrous material)	36"x36"x3/16" (thickness)	200-400 gallons	Small spills, shallow water in a contained area
Rolls (5) (polypropylene fibrous material)	36"x150'x3/8" (thickness)	200-1,000 gallons	Over large flat areas
Boom (1) (polypropylene fibrous material)	8" (diameter) x 10' (length)	100-200 gallons	Small spills in a contained structure
Boom (1) (polypropylene fibrous material)	2-5" diameter x 10' (length)	100-200 gallons	Small spills in a contained structure
Clay (5 bags)	50.5 lbs	2 lbs/lb clay	Small spills in a contained structure
Soda Ash (13 bags)	100 lbs	--	Neutralization of corrosive spills
Sodium Carbonate (59 bags)	100 lbs	--	Neutralization of corrosive spills
Overpack drums (85)	--	--	Repacking of leaking 55-gallon drums

These absorbent materials are stored at the FPPB and are readily available if a spill occurs. Plug and patch materials are also available at the FPPB. Sand, sawdust, or vermiculite, which can be used as absorbent material to contain oil and some hazardous

hazardous substance spills, are available from the Motor Maintenance Section, through the Logistics Branch Chief/Representative, if a spill occurs.

The following is a list of the equipment items, major and minor, available at the installation from Facilities Maintenance Branch:

#### HEAVY EQUIPMENT LOCATION

Crane (1)	Bldg. 712
Backhoe (1)	Bldg. 742
Graders (2)	Bldg. 544
Front-end Loader w/backhoe (1)	Bldg. 742
Tractor w/buckets (1)	Bldg. 742 and yard near Bldg. 544
Truck w/blade (1)	Bldg. 742
Gas-driven pumps (2)	Bldg. 543
Submersible and hand pumps	Bldg. 543

#### **7.4 FIRE PROTECTION SYSTEMS**

The following are the various types of fire protection systems at RMA:

- . Water mains and fire hydrants;
- . Fire extinguishers (carbon dioxide, Halon®, dry chemical);
- . Aqueous film-forming foam (AFFF);
- . ABC (phosphate dry chemical); and
- . Sprinkler systems.

Most of the potential hazard sites at RMA have one or more of the above-mentioned fire protection systems. Table I.7 presents the specific locations and the type of fire protection systems present. Maps in Appendix J of Attachment B (Volume III) depict fire hydrant locations.

Sprinkler flow tests and hydrant maintenance are performed annually and after any major water main and/or hydrant repairs. Static pressures vary from area to area throughout the installation. The following are approximate averages by area:

- . RMA Logistics Area: 85 pounds per square inch (psi),

TABLE I.7  
 ROCKY MOUNTAIN ARSENAL FIRE PROTECTION SYSTEMS

Location/Facility	Fire Protection System
<b>LOGISTICS AREA</b>	
Tank 632	Fire hydrant
Tank Farm 10176	Fire hydrant
Tank Farm 629 Tanks 629A-D, and 628A	Fire hydrant and fire extinguishers
Tanks 648A and B	Fire hydrant
Motor Pool Service Station	Fire hydrant and fire extinguishers
Building 616	Fire hydrant and fire extinguishers
Building 618	Dry sprinkler system, fire hydrant, and fire extinguisher
Building 631 and 631A	Dry sprinkler system, fire hydrant, and fire extinguisher
Building 627	Dry sprinkler system, fire hydrant, and fire extinguisher
Building 621, 633B	Fire hydrant and fire extinguishers
Building 624	Wet sprinkler system, fire hydrant, and fire extinguisher
<b>NORTH PLANTS AREA</b>	
Tank Farm 1402	Fire hydrant (inoperable) and fire extinguishers
Tank Farm 1403	Fire hydrant (inoperable) and fire extinguishers
Tank Farm 1505	Water from emergency showers
Tank Farm 1510	Fire hydrant (inoperable)
Tank South of Building 1611	Fire hydrant (inoperable) and fire extinguishers

TABLE I.7 (Continued)  
ROCKY MOUNTAIN ARSENAL FIRE PROTECTION SYSTEMS

Location/Facility	Fire Protection System
Tank North of Building 1611	Fire hydrant (inoperable) and fire extinguishers
Building 1701	Wet sprinkler system and fire hydrants (inoperable)
Building 1727 Sump	Fire hydrants (inoperable)
Building 1713	Fire hydrants (inoperable)
<b>SOUTH PLANTS AREA</b>	
Fueling Station	Fire hydrants
Building 313, Lab	Wet sprinkler system, fire hydrant, and fire extinguisher
Building 321	Fire hydrants and fire extinguishers
Building 331 and 332	Fire extinguishers and smoke/fire detectors
Building 368 and 372A	Fire hydrant and fire extinguishers
Building 451	Fire hydrants
Building 543	Wet sprinkler system, fire hydrants, and fire extinguisher
Building 741	Wet sprinkler system, fire hydrants, and fire extinguisher
Building 742	Fire hydrant and fire extinguishers
Building 743	Wet sprinkler system, fire hydrants, and fire extinguisher
Tank Farm 321 A, B, E	Fire hydrants

TABLE I.7 (Continued)  
 ROCKY MOUNTAIN ARSENAL FIRE PROTECTION SYSTEMS

Location/Facility	Fire Protection System
Tank 463D	Deluge sprinkler system, fire hydrants, and fire extinguishers
Tank 805	Deluge sprinkler system, fire hydrants, and fire extinguishers
Liquid Waste Treatment Facility (Building 540)	Fire hydrant

**BASIN F STORAGE FACILITIES**

Tanks 815, 816, 817	Fire hydrants
Pond A	None
Wastepile	None

**OLD TOXIC STORAGE YARD**

None

**CENTRAL WASTE  
 HANDLING FACILITY**

Building 785	Fire extinguishers
Building 786	Fire extinguishers
Building 787	Fire extinguishers
Building 788	Fire extinguishers
Building 791	Fire extinguishers
Building 794	Fire extinguishers
Building 796	Fire extinguishers
Building 797	Fire extinguishers
Building 798	Fire extinguishers

**NORTH AND NORTHWEST  
 BOUNDARY GROUND WATER  
 INTERCEPT SYSTEMS**

Fire extinguishers and water supply

**SEWAGE TREATMENT PLANT**

Fire extinguishers

Draft Final  
CP, RMA, CO  
21 December 1990

TABLE I.7 (Continued)  
ROCKY MOUNTAIN ARSENAL FIRE PROTECTION SYSTEMS

Location/Facility	Fire Protection System
HAZARDOUS WASTE STORAGE BUNKERS(BUILDING 1608)	*
BASIN A NECK GROUND WATER INTERCEPT AND TREATMENT FACILITY	Fire extinguishers
IRONDALE GROUND WATER TREATMENT FACILITY	Fire extinguishers

\* Information Under Development.



- . South Plants Area: 95 psi,
- . North Plants Area: 105 psi.

Potable water for all needs on RMA is supplied by the City of Denver through a 33-inch main. A 1-million-gallon potable-water reservoir (Building 372) with two 1,400-gallon-per-minute pumps is kept full for emergency use. Process (nonpotable) water is supplied primarily from Lake Ladora.

AFFF, carbon dioxide, and dry powder products are used to extinguish any petroleum product fires. Fire extinguishers (carbon dioxide, Halon®, and dry chemicals) are inspected monthly by the FPPB and given required servicing and maintenance. Records are maintained at the FPPB (Building 372). Two-and-one-half-pound and 5-pound dry chemical units are installed in or on all RMA vehicles and mobile equipment. These are checked by the driver/operator, and any deficiencies noted are reported to the FPPB for immediate correction.

## SECTION 8

### COORDINATION AGREEMENTS AND OTHER RESPONSE RESOURCES

In the event a spill occurs which is beyond the capabilities of the available onsite Rocky Mountain Arsenal (RMA) equipment and personnel, assistance from other sources will be required. In such cases, the Installation On-Scene Coordinator (IOSC) will seek the assistance of one or more of the services listed below:

- . Stapleton International Airport Crash/Fire/Rescue (via Denver Police Department at Stapleton): (303) 270-1875
- . Adams County Mutual Aid: 911 or (303) 288-1535
- . Adams County Hazardous Materials Response Team: 911 or (303) 288-1535
- . Fitzsimons Army Medical Center (FAMC), Directorate of Engineering and Housing: (303) 361-8540
- . FAMC Fire Department: (303) 361-8461
- . FAMC Emergency Room: (303) 361-8031
- . Aurora Presbyterian Hospital: (303) 360-3133
- . Humana Mountain View Hospital: (303) 450-4482

Additional sources listed in the Denver telephone directory which have access to heavy equipment and additional spill response equipment may also be contacted.

Coordination agreements between RMA and these offsite entities are presented in Appendix D of Attachment B (Volume II).

Additional assistance is available from the following organizations:

- . Air Life: (303) 360-3400
- . Colorado Department of Health, Denver: (303) 331-4530 or 370-9395 (after hours)
- . Colorado Highway Department: (303) 239-4501
- . Chemical Transportation Emergency Center (CHEMTREC): (800) 424-9300
- . Department of the Army, Headquarters: DSN: 285-0591

- Federal Emergency Management Agency (FEMA): (303) 235-4800 or 235-4900 (after hours).
- Flight for Life: (303) 629-3900
- National Pesticide Telecommunications Network: (800) 858-7378
- National Response Center: (800) 424-8802
- 94th Explosives Ordnance Detachment (EOD) in  
Fort Carson, CO:  
1st Sergeant COMMERCIAL: (719) 579-2643/4242  
24 hour number DSN: 691-2643
- Oil and Hazardous Substance  
Spill Response Team COMMERCIAL: (301) 671-3816  
DSN: 584-3816
- Poison Control Center. St. Anthony Central: (303) 629-1123
- Resource Conservation and Recovery Act (RCRA) Hotline: (800) 424-9346
- Toxic Substance Control Act (TSCA) Hotline: (202) 554-1404
- United States Army Technical Escort Unit  
(USATEU), Aberdeen Proving Ground  
(Edgewood, Maryland) DSN: 584-4383
- U.S. Army Environmental Hygiene  
Agency (AEHA)-West COMMERCIAL: (303) 361-8881  
DSN: 943-8096
- U.S. Environmental Protection  
Agency, Region VIII  
24-hour Emergency Spill Number (303) 293-1788

In addition to the above-listed organizations, the following emergency response resources may be useful.

- **Chemical Hazards Response Information System (CHRIS) manual.** The CHRIS manual is an official publication of the U.S. Coast Guard that currently provides technical information and appropriate response procedures for over 1,000 different substances. The manual contains four volumes which are periodically updated.
- **Hazardous Chemical Data.** This guide, published by the National Fire Protection Association, is keyed only to hazards during fires.
- **Pocket Guide to Chemical Hazards.** This reference, published by NIOSH/OSHA, contains information on various chemicals. An expanded version, "Occupational Health Guideline for Chemical Hazards" is useful for planning and contains information on signs and symptoms of overexposure, emergency first aid, protective equipment, sanitation, and spill procedures.

- . Department of Transportation Response Guides. The guide deals with chemicals in original transportation. The 1980 to 1981 "Hazardous Materials - Emergency Response Guidebook" has an alphabetical chemicals list and a list coded by UN number, both keyed to "generic" numbered response guides, plus an evacuation distance table. This is the only response guide listing information for some general classes of chemicals (for example, mixed acids).
- . Chemical Manufacturers' Association "Chemcards." These cards contain information similar to that in the CHRIS Manual.
- . Department of Defense (DOD) Hazardous Materials Information System (HMIS). This reference contains information on firefighting, explosion procedures, emergency first aid, protective equipment, and spill/leak procedures for chemicals listed by national stock number (NSN).
- . Computer Aided Management of Emergency Operations (CAMEO) from the National Oceanic and Atmospheric Administration (NOAA). Access from the Communications Center, Building 312.
- . Health and Safety Plan Incident Evaluation (HASP) from the U.S. Environmental Protection Agency (EPA). Access from the Communications Center, Building 312.
- . Automated Resource for Chemical Hazards (ARCHIE) from EPA. Access from the Communications Center, Building 312.
- . Rocky Mountain Arsenal (RMA) Chemical Index.
- . Downwind Modeling programs.
- . Current meteorological data generated by the RMA meteorological stations.

## **SECTION 9**

### **EVACUATION PLAN**

#### **9.1 EVACUATION OF INCIDENT AREA**

The evacuation of particular areas at Rocky Mountain Arsenal (RMA) will be determined on a case-by-case basis. The Fire Chief or Fire Department Officer in Charge (FDOIC) with initial response forces will determine the need for evacuation of the immediate area and, if possible, areas further downwind. Using sirens, bull horns, and other available signals, and assisted by security forces, he will evacuate the immediate vicinity of the accident or incident to the extent practicable pending arrival of the Chemical Accident/Incident Response Officer (CAIRO).

Upon arrival at the scene, the CAIRO will be briefed and will furnish further data to the Installation On-Scene Coordinator (IOSC) with appropriate recommendations for evacuation. The IOSC will determine if a broader evacuation is needed. This determination will be based on the downwind hazard or on the hazard assessment of the incident. If further evacuation is required, the Chief, Law Enforcement and Security Branch, will be informed of the extent of the evacuation area. The IOSC will notify appropriate local, state, and federal agencies.

Available security forces will be dispatched as needed to populated areas and will, by use of siren, bull horn, and other audible equipment, effect evacuation of all personnel. Based on advice, on wind direction, and speed of contaminant movement, security forces will direct the flow of evacuated personnel away from hazardous areas.

#### **9.2 INSTALLATION-WIDE EVACUATION**

In the event that an installation-wide evacuation is necessary, the IOSC shall authorize the sounding of the evacuation signal. RMA emergency warning signals are listed in Table I.5. Immediately upon the sounding of the signal, all persons not participating in responding to the emergency shall evacuate RMA by proceeding to the nearest of the following locations:

- . the parking lot at the West Gate,
- . the vicinity of the Guard House at the South Gate, or
- . the parking lot at the North Boundary Ground Water Treatment Facility.

All persons shall remain at these locations until the "all clear" has been communicated via RMA communications system, or until they have been advised by the IOSC to leave RMA property.

While at the evacuation sites, all persons shall stand clear of the movement of emergency response personnel and equipment.

## **SECTION 10**

### **ADMINISTRATION OF THE CONTINGENCY PLAN**

#### **10.1 LOCATION OF CONTINGENCY PLAN**

Current and complete copies of this Contingency Plan (CP) shall be retained as follows:

- . In the office of each member of the Installation Response Team (IRT) including the Installation On-Scene Coordinator (IOSC) and each alternate;
- . In the supervisor's office of each of the Rocky Mountain Arsenal (RMA) active locations (i.e., Logistics Area, North Plants Area, South Plants Area, Basin F Area);
- . In the office of the Chief, Compliance Office;
- . At the operations duty station of all off-post assistance sources;
- . In the Emergency Control Center (ECC), room 231 in Building 111; and
- . In the field office of on-site Contractors.

Current and complete copies of this CP shall be submitted to all local police departments, fire departments, hospitals, and state and local emergency response teams that may be called upon to provide emergency services.

#### **10.2 AMENDING OF CONTINGENCY PLAN**

This CP must be reviewed, and immediately amended if necessary, as follows:

- . If the CP fails in an emergency;
- . If the facility changes in its design, construction operation, maintenance, or other circumstances in a way that materially increases the potential for fires, explosions, or releases of hazardous substances or oil, or changes the response necessary in an emergency;
- . If the Installation On-Scene Coordinator (IOSC) or any of the IOSC alternates changes;
- . If the list of emergency equipment changes;
- . If changes in the coordination agreements occur, and

- . In any event, once every three years following the effective date (40CFR112.5; AR200-1, 8-8, d(1)). The Spill Prevention, control, and countermeasure (SPCC) Plan must be updated once every two years (AR200-1, 8-7, c(4)).

The CP is a numbered and controlled document. In the event that the CP is amended, Program Manager Rocky Mountain Arsenal (PMRMA) will provide a copy of the amendment for each numbered document. It is the responsibility of the custodian to keep the document up to date.